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Field Crop Abstracts

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CAB INTERNATIONAL (CABI), formerly the Commonwealth Agricultural Bureaux, is a cooperative not-for-profit organization owned, administered and financed by member governments. It was established in 1928, currently has 29 members, and has the status and privileges of an international organization in the UK. A new treaty-level constitution, giving CABI the status of an Inter-Governmental Organization, is in the process of ratification.

CABI's organizational structure comprises the Review Conference of member governments, which meets every five years; the Executive Council, with one representative from each member government, which meets four times per year; and the Directorate, including CABI Headquarters and its 14 Institutes and Bureaux. The Director General is the chief executive, controlling the 375 staff, two thirds of whom are at managerial or professional level, through three Directors, for Information, Scientific and Administrative Services.

The organization exists to provide information, scientific and development services for agriculture and allied disciplines throughout the world.

INFORMATION SERVICES

The chief function of the Information Services is to provide ready access to published information on research in agriculture and allied disciplines, including rural development.

Over 100 scientists/linguists at CABI's Bureaux and Institutes scan the world literature, select the significant items, and prepare an informative abstract of each which is entered into the CAB ABSTRACTS database. With some 2 million records in the database since 1973, and 3 million more in printed journals back to 1930, the total archive provides a unique encyclopaedic resource of unsurpassed reliability and quality.

The CAB ABSTRACTS database is publicly accessible online from major international online vendors and from CABI. It is used to provide current awareness and retrospective information services in hard copy and machine-readable form. Chief among these are 46 printed abstract journals, which are taken by 10,000 subscribing organizations worldwide. New journals are started in response to changing users' needs or if sponsors guarantee the circulation. Users needing more specific information may select outputs that match their particular requirements, helped if necessary by CABI's subject experts; outputs are supplied as magnetic tape, computer printout, microfiche or floppy disk. The database is also available on optical disk (CD-ROM), a new technology ideally suited to developing countries. To complete the service, photocopies of original articles are provided on request through the CABI Library Services.

Text processing, database production and data retrieval are provided by CABI's in-house computer centre, which also offers these services to other organizations. The centre is already recognized as the focal point for online access to a portfolio of small bibliographic databases and databanks relevant to agriculture, medicine and development.

Other functions of the Information Services include compilation of specialized databanks and directories, publication of primary journals, authoritative reviews and books, and training in information transfer for librarians, documentalists and information specialists.

SCIENTIFIC SERVICES

The Scientific Services of CABI are provided by four Institutes. Three deal with the science of taxonomy and provide identification and related services; the fourth deals with biological control.

CAB International Institute of Entomology (CIE)

CIE provides an identification service for insects, mites and other arthropods, especially species that are of actual or potential important as pests, parasitoids, predators and pollinators or are otherwise relevant to agriculture, forestry or related subjects. Contract research is also undertaken in these fields. The Institute's taxonomists work in the British Museum (Natural History) where they have access to the Museum's 23 million reference specimens of insects and mites, an incomparable aid to authoritative identifications and research on arthropod classification.

CAB International Mycological Institute (CMI)

CMI is the largest centre for systematic mycology in the world and provides a service for the identification of filamentous fungi and plant-pathogenic bacteria. It has about 300,000 dried reference specimens, a culture collection of more than 12,500 isolates, an extensive library, a Biodeterioration and Industrial Services Laboratory, a Biochemical Laboratory, and a Plant Pathology Liaison Unit. The Institute provides a wide range of consultancy and contract services for plant pathologists and industry. It incorporates the UK National Collection of Fungus Cultures and the Biodeterioration Centre.

CAB International Institute of Parasitology (CIP)

CIP provides an identification service for plant-parasitic and entomophilic nematodes, and helminth parasites of animals and man. The reference collections contain over 65,000 specimens, and an extensive specialist library is maintained. The Tropical Plant Nematology Advisory and Research Unit provides practical advice on plant-parasitic nematodes and their control worldwide, and the Institute also houses the WHO Filarial Reference Collection.

CAB International Institute of Biological Control (CIBC)

CIBC provides information and advice on biological control, undertakes research and implementation of programmes on biological control of major pests and weeds, and participates in integrated pest management programmes in association with other agencies. It has its headquarters in the UK but operates also from stations at Delémont, Switzerland; Bangalore, India; Rawalpindi, Pakistan; Nairobi, Kenya; and Curepe, Trinidad, West Indies.

All four Institutes carry out research, and offer a wide range of training activities from postgraduate studentships to special training courses both in the UK and abroad.

DEVELOPMENT SERVICES

The Development Services provide a focus for CABI consulting activities.

The Development Services Group was established in 1986 to provide a sharper focus for CABI's consulting activities. It draws heavily on the unique scientific expertise and information resources available in the CABI Institutes and Bureaux, and its activities are backed by nearly sixty years of CABI involvement in science and world agriculture.

The Development Services offer practical advice and assistance on many pest-related or environmental problems in agriculture. Specific services include:

- project appraisal
- advice in a range of scientific disciplines
- research supervision
- research evaluation
- project implementation.

These services are offered in situations ranging from short-term individual consultancies to project components and major development projects. The current focus is on:

- integrated pest management programmes
- national crop protection services
- pest/disease identification and control
- crop-orientated pest and disease surveys.

One component of these activities that can be extended to any branch of agriculture or development is the provision of a comprehensive information service, involving expert review and analysis of all relevant literature.

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Ar	Arabic	Fi	Finnish	No	Norwegian
Az	Azerbaijan(i)/Azerbaidzhani/ Azerbaidzhanian	Fr	French	Pe	Persian
		Gr	Greek	Pt	Portuguese
Be	Belorussian	Hu	Hungarian	Ro	Romanian
Bg	Bulgarian	Ia	Interlingua	Ru	Russian
Ch	Chinese	In	Indonesian	Sk	Slovak
Cr	Croat	It	Italian	Sn	Slovene
Cs	Czech	Ja	Japanese	Sr	Serbian
Da	Danish	La	Latin	Sv	Swedish
De	German	Li	Lithuanian	Ta	Tajik/Tadzhik
Ee	Estonian	Lv	Latvian	Tr	Turkish
En	English	Ma	Macedonian	Uk	Ukrainian

ABBREVIATIONS

The abbreviations used for the names of common units, mathematical operations, chemical elements, etc., are in accordance with British Standard 1991 : 1967. Additional abbreviations used follow the CAB Standard List of Abbreviations, which is published in the Annual Index. In addition, the following are used:

FCA	*Field Crop Abstracts*	*HbA*	*Herbage Abstracts*
WA	*Weed Abstracts*		

C·A·B INTERNATIONAL BUREAU OF PASTURES AND FIELD CROPS

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C·A·B International Bureau of Pastures and Field Crops prepares records for three monthly main journals, *Herbage Abstracts*, *Field Crop Abstracts* and *Weed Abstracts*. These journals cover world scientific literature on annual field crops, pastures, herbage crops and rangelands, weeds, weed control and herbicides and provide a comprehensive guide to current scientific developments and a key to literature published in the past. The Bureau also publishes review articles on selected subjects in *Herbage Abstracts* and *Field Crop Abstracts*.

Scope of *Field Crop Abstracts:* The subjects covered include the agronomy and major aspects of the biology of all annual field crops grown for food, fodder, oil and fibre, and of tobacco. Land use, farming systems, agricultural meteorology and the control of weeds, pests and diseases are dealt with only in so far as they concern the crop coverage.

The Bureau is prepared, on request, to undertake literature searches and to compile bibliographies on subjects within its scope.

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Rye	–	122	202	287	375	468	561	647	754	829	955	1046
Triticale	16	123	202	289	376	469	561	648	755	831	956	1046
Barley	17	123	202	290	376	469	562	649	755	832	957	1047
Zizania aquatica	–	–	–	–	–	–	565	–	–	–	960	1052
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Pennisetum americanum	47	144	224	313	402	496	582	678	770	865	979	1079
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Eleusine coracana	48	–	226	–	403	497	582	679	771	865	–	1079
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Groundnuts	64	151	234	320	411	505	591	691	777	878	990	1091
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Phaseolus spp.	71	155	239	325	418	511	597	699	780	886	998	1096
Vigna spp.	75	157	240	327	420	513	601	703	783	890	1001	1100
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Lens culinaris	–	160	243	330	424	515	602	707	784	893	1003	–
Lupinus spp.	77	160	244	330	424	516	603	707	784	893	1003	1103
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Fodder beet	–	163	247	333	427	–	605	710	786	899	–	1106
Turnips and swedes	82	163	–	333	–	–	–	711	786	899	–	1107
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Carrots	–	–	–	–	–	–	–	–	–	908	–	–
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Cassava	88	166	252	340	433	526	609	719	792	909	1011	1111
Dioscorea spp.	89	167	–	341	433	526	–	719	793	910	1011	1111
Colocasia esculenta	89	–	–	341	–	–	–	720	793	910	–	1112
Xanthosoma	–	–	–	–	–	–	–	–	–	–	–	1113
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Root crops, general	90	–	252	341	–	–	610	720	–	910	–	–
Fibre plants	90	167	253	342	434	526	610	720	793	910	1011	1113
Cotton	90	167	253	342	434	526	610	720	793	910	1011	1113
Fibre flax	94	170	256	344	437	532	612	727	795	913	1015	1117
Cannabis sativa	–	–	257	344	–	532	–	727	–	–	1015	1117
Jute	94	170	257	344	438	533	612	727	795	914	–	1117
Minor fibre plants	94	–	–	–	–	–	–	–	–	–	–	–
Fibre plants, general	–	–	–	–	–	–	–	–	–	–	–	–

Oil plants	94	170	258	345	438	533	613	728	796	914	1015	1117
Ricinus communis	94	170	258	345	438	533	613	728	796	914	1015	1117
Sesame	94	170	258	345	438	533	613	728	–	914	1015	1118
Oilseed flax	94	171	258	345	–	–	613	–	–	914	1016	1118
Safflower	95	171	258	346	–	534	613	728	796	915	1016	1118
Sunflowers	95	172	258	346	439	534	613	728	797	915	1016	1119
Rape	96	172	260	348	440	535	615	730	798	916	1018	1120
Minor oil plants	97	–	–	–	–	–	–	–	–	–	–	–
Oil plants, general	98	173	261	–	441	–	–	732	–	918	–	1122
Miscellaneous crops	99	175	262	349	441	538	618	732	799	918	1020	1122
Tobacco	99	175	262	349	441	538	618	732	799	918	1020	1122
Brassica oleracea	101	177	263	352	–	540	–	735	–	921	–	1127
Fodder radish	–	–	–	–	–	–	–	–	–	–	–	–
Buckwheat	101	177	263	–	443	540	621	–	800	921	1023	–
Other crops	101	–	–	–	–	–	–	–	–	–	–	–
Miscellaneous crops, general	101	–	–	352	–	–	621	736	800	–	–	–
Green manures	101	–	–	–	443	541	–	–	–	922	1023	1127
Field crops, general	101	177	263	352	443	541	621	736	801	922	1023	1127
Crop botany	102	179	264	353	445	542	622	738	802	925	1025	1128
Physiology	102	179	264	353	445	542	622	738	802	925	1025	1128
Chemical composition	105	181	266	355	–	545	624	740	803	–	1027	–
Morphology and anatomy	–	–	–	–	447	545	–	–	–	928	1028	–
Cell biology	–	–	266	356	–	–	624	–	–	–	1028	1132
Environmental factors	105	181	267	356	447	545	624	740	803	928	1028	1133
Symbiosis and nitrogen fixation	–	183	267	357	448	–	624	741	–	930	1028	1134
Radiobiology	–	–	–	–	–	545	–	–	–	–	–	–
Taxonomy	–	–	–	–	–	–	–	–	–	–	–	–
Techniques and apparatus	106	183	267	357	–	546	625	741	804	931	1029	1134
Storage	–	–	–	–	448	–	–	741	804	–	1029	–
Miscellaneous	–	184	–	–	–	546	–	–	804	–	–	–
Weeds	107	184	268	358	–	546	–	741	804	932	1030	1134
Pests and diseases	–	–	–	–	–	–	–	–	804	932	–	–
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C·A·B INTERNATIONAL

STANDARD LIST OF ABBREVIATIONS

AAS	atomic absorption spectrometry
ABA	abscisic acid
a.c.	alternating current
ACTH	adrenocorticotropic hormone
ad lib.	ad libitum
ADP	adenosine diphosphate
a.e.	acid equivalent
a.i.	active ingredient
AI	artificial insemination
alt.	altitude
a.m.	*ante meridiem*
approx.	approximately
aq.	aqueous
ATP	adenosine triphosphate
Aug.	August
av.	average
BOD	biochemical oxygen demand
b.p.	boiling point
c.	circa
CA	controlled atmosphere
cAMP	cyclic adenosine monophosphate
CEC	cation exchange capacity
cf.	compare
CF	crude fibre
CGR	crop growth rate
CNS	central nervous system
COD	chemical oxygen demand
coeff.	coefficient
col.	coloured
conc.	concentrated
const.	constant
CP	crude protein
CR	conception rate
cryst.	crystalline
CSIRO	Commonwealth Scientific and Industrial Research Organization [Australia]
cv.	cultivar
CV	coefficient of variation
d.b.h.	diameter at breast height
d.c.	direct current
DCP	digestible crude protein
DDM	digestible dry matter
DE	digestible energy
Dec.	December
DHIA	Dairy Herd Improvement Association
DM	dry matter
diam.	diameter
dil.	dilute
DMSO	dimethyl sulphoxide
DNA	deoxyribonucleic acid
DOCA	desoxycorticosterone acetate
DOM	digestible organic matter
DTA	differential thermal analysis
E.	east
ED	effective dose
EDTA	ethylenediaminetetracetic acid
EEC	European Economic Community
e.g.	for example
Eh	oxidation-reduction potential
ESP	exchangeable sodium percentage
et al.	*et alii*
f.	*forma*
F	filial generation
F	inbreeding coefficient
FAD	flavin adenine denucleotide
FAO	Food and Agriculture Organization
FCM	fat-corrected milk
FDA	Food and Drug Administration
Feb.	February
FGA	fluorogestone acetate
FMN	flavin mononucleotide
f.p.	freezing point
FSH	follicle stimulating hormone
FSHRH	FSH-releasing hormone
f.sp.	*forma specialis*
FU	food unit/fodder unit
FYM	farmyard manure
g.b.h.	girth at breast height
gen.	genus
GLC	gas-liquid chromatography
GnRH	gonadotropin-releasing hormone
Gram+	Gram positive
Gram−	Gram negative
h^2	heritability
Hb	haemoglobin
HCG	human chorionic gonadatropin
ht.	height
ICSH	interstitial cell stimulating hormone
i.e.	that is
IR	infrared
IU	international unit
IVT	Illini variable temperature
Jan.	January
LAI	leaf-area index
LAR	leaf-area ratio
lat.	latitude
LC	lethal concentration
LD	lethal dose
LH	luteinizing hormone
LHRF	LH-releasing factor
LHRH	LH-releasing hormone
loc.cit.	place cited
long.	longitude
M[small cap]	molar
MA	megestrol acetate
m.a.i.	mean annual increment
MAP	6-α-methyl-17α-acetoxy-progesterone
max.	maximum
m.c.	moisture content
ME	metabolizable energy
MGA	melengestrol acetate
min.	minimum
mol.	molecular
m.p.	melting point
MS	mass spectrometry
MU	mouse unit
N.	north
N[small cap]	normal [concentration]
NAD+	nicotinamide adenine dinucleotide (oxidized form)
NADH	nicotinamide adenine dinucleotide (reduced form)
NADP+	nicotinamide adenine dinucleotide phosphate (oxidized form)
NADPH	nicotinamide adenine dinucleotide phosphate (reduced form)
NAR	net assimilation rate
NE	north-east
NFE	nitrogen-free extract
NMR	nuclear magnetic resonance
Nov.	November
NW	north-west
obs.	observed
Oct.	October
OM	organic matter
opt.	optimum
P	parental generation
P	probability
p.a.	*per annum*
PG	prostaglandin
pH	hydrogen-ion concentration
p.m.	*post meridiem*
PMB	pregnant mare blood
PMS	pregnant mare serum
PMSG	pregnant mare serum gonadotropin
PMU	pregnant mare urine
post-em.	post-emergence
p.p.h.m.	parts per hundred million
p.p.m.	parts per million
ppt.	precipitate
pre-em.	pre-emergence
PVC	polyvinyl chloride
q.v.	which see
RBV	relative breeding value
resp.	respectively
RGR	relative growth rate
RH	relative humidity
RNA	ribonucleic acid
RU	rat unit
S.	south
SAR	sodium absorption ratio
s.d.	standard deviation
SE	south-east
s.e.	standard error
Sept.	September
SNF	solids not fat
sol.	solution
sp.	species
sp.gr.	specific gravity
SSP	soluble sodium percentage
s.t.p.	standard temperature and pressure
str.	strain
SW	south-west
syn.	synonym
TDN	total digestible nutrients
temp.	temperature
TG	thermogravimetry
TLC	thin-layer chromatography
TMV	tobacco mosaic virus
UHT	ultra-high temperature
USDA	United States Department of Agriculture
UV	ultraviolet
var.	variety
VFA	volatile fatty acids
viz.	namely
vol.	volume
v.p.m.	volume per million
vs.	versus
v/v	volume/volume
W.	west
WHO	World Health Organization
wk	week
w.p.	wettable powder
wt.	weight
w/v	weight/volume
w/w	weight/weight
yr	year

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